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In re Application of	
Application Number 081591217	Filed 1-17-96
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Paper No. 15Assistant Commissioner for Patents
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1. I hereby request access under 37 CFR 1.14(e)(2) to the application file record of the above-identified ABANDONED Application, which is not within the file jacket of a pending Continued Prosecution Application (CPA) (37 CFR 1.53(d)) and is: (CHECK ONE)

 (A) referred to in:United States Patent Application Publication No. 6119 691, page , line .United States Patent Number , column , line , or

an International Application which was filed on or after November 29, 2000 and which

designates the United States, WIPO Pub. No. , page , line . (B) referred to in an application that is open to public inspection as set forth in 37 CFR 1.11(b) or 1.14(e)(2)(i), i.e., Application No. , paper No. , page , line .

2. I hereby request access under 37 CFR 1.14(e)(1) to an application in which the applicant has filed an authorization to lay open the complete application to the public.

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Unit: _____



US006119691A

United States Patent [19]
Angadjivand et al.

[11] **Patent Number:** **6,119,691**
[45] **Date of Patent:** ***Sep. 19, 2000**

[54] **ELECTRET FILTER MEDIA**

[75] Inventors: **Seyed A. Angadjivand**, Darlington, United Kingdom; **Marvin E. Jones**; **Daniel E. Meyer**, both of Stillwater, Minn.

[73] Assignee: **Minnesota Mining and Manufacturing Company**, St. Paul, Minn.

[*] Notice: This patent issued on a continued prosecution application filed under 37 CFR 1.53(d), and is subject to the twenty year patent term provisions of 35 U.S.C. 154(a)(2).

[21] Appl. No.: **08/865,362**

[22] Filed: **May 29, 1997**

Related U.S. Application Data

[63] Continuation of application No. 08/591,217, Jan. 17, 1996, abandoned, which is a continuation of application No. 08/291,611, Aug. 17, 1994, Pat. No. 5,496,507, which is a continuation-in-part of application No. 08/107,517, Aug. 17, 1993, abandoned.

[51] Int. Cl.⁷ **A62B 18/02**; **A62B 23/02**; **A62B 7/10**

[52] U.S. Cl. **128/206.19**; **128/205.29**; **55/DIG. 35**; **55/DIG. 39**

[58] Field of Search **128/205.29**, **206.19**; **55/DIG. 35**, **DIG. 39**

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[57] **ABSTRACT**

An electret filter media, and mask, that is made of a nonwoven web of thermoplastic microfibers. The thermoplastic microfibers are of substantially the same composition, are nonconductive, and have an effective fiber diameter less than about 15 micrometers. The nonwoven web also has sufficient unpolarized trapped charge to exhibit an initial filtration quality factor of at least 0.31 when measured under the DOP Penetration and Pressure Drop Test.

18 Claims, 4 Drawing Sheets